QUALITY MONITORING INSTRUCTION FOR INSPECTION

Issue No : 01 Rev No :

Date of Issue 18/08/2021

44P 04010 (RECEIVER BUSHING)

OFT/MI/AMR/44P 04010

Rev.No Amendment Date

MATERIAL SPECIFICATION::

: GOST 4543-71, 30XH2MØA

ALTERNATE MATERIAL

BS 970 PT.1 1983 GR.826 M31 (or) EN 25.

CONDITION OF SUPPLY

FULL FINISHED WITH FIRM'S MATERIAL

END USE

: 14.5 /20mm AMR.

INSPECTION CHECK TO BE CARRIED OUT

Table 'A'

SL NO	CHARACTERISTICS		SPECIFICA	ATION	/ RE	QUIREMENT	SAMPLE SIZE	
1.	Visual	The Rod shall be free from defects such as rust, scale, burrs and any other harmful defects.				100%		
2.	Dimension	100% Dimension to check as per drawing						
3.	Chemical Composition (%)	GOST 4 C = Si = Mn = Cr = Ni = BS:970 I C = Si = Mn = Cr = Ni = EN-25 C = Si = Mn = Cr = Ni = Ni =	0.27-0.35 0.27-0.35 0.30-0.60 0.60-0.90 2.0-2.4 Pt.1, 1983 GR.82 0.27-0.35 0.10-0.35 0.45-0.70 0.50-0.80 2.30-2.80 0.27-0.35 0.10-0.35 0.27-0.35	V Mo Cu S P Mo S P Mo V S P		0.10-0.18 0.20-0.30 0.20 (Max) 0.015 (Max) 0.020 (Max) 0.45-0.65 0.040 (Max) 0.035 (Max) 0.40-0.70 0.05 (Max) 0.050 (Max)	One Sample Per Heat	
		(Permiss	(Permissible variations in value as per specification standard)					

		GOST 4543-71, 30XH2	2MØA	
		Tensile Strength	90Kgf/mm ² (Min)	
		Yield Strength	80 Kgf/mm ² (Min)	
		Elongation	10% (Min)	
		Reduction of area	40% (Min)	
		Izod	9 Kgf/cm ² (Min)	
		(Cross section of blanks	to be heat treated 25mm dia)	
		BS:970 Pt.1, 1983 GR.8	26 M31 ('W' CONDITION)	
4.	Mechanical	Tensile Strength		One Sample
1	Properties	Yield Strength		Per Heat
		Elongation (5.65√A)	11% (Min.)	
		Izod Impact	30 Ft.lb (Min).	21
		EN-25 ('X' CONDITION	ON)	
8		Tensile Strength	A CONTRACTOR CONTRACTO	
-0		Yield Strength	63 Tonns/Sq.In (Min)	
		Elongation	14% (Min.)	
	8	Izod Impact	25ft.lb (Min).	
5.	Hardness	Hardness 34-41 RC (as	per drawing).	
-		The Packing of the Mate		
6.	Packing	to avoid corrosion and	osion and damage in handling and transit.	Each Consignment
7	Narkina	Each Packing shall be le	egibly marked with manufacturer's	Consignment
7.	Marking	identity , Qty, Heat No,	OFT Supply order No etc.,	

HOS/STD.CEL CHECKED

L.S. ASHA HOS / QCM CHECKED

V.RAVEENDAR JWM/STD.CELL PREPARED

G.DEVENNIRANE AWM (QCM & HT)

S. KRISHNA SWAMY JT.GM (QC and R&D)

A.K SINGH

AGM / (WP & MAINT) APPROVED

Note:

- 1. The Raw material/component/forging/casting to be tested by the firm on selection of the sample by the firm itself for chemical composition and mechanical properties in NABL accredited approved Lab as per Table 'A'.
- 2. The Firm has to check for the dimensions, visual defects, packing and marking as per Table 'A'. After completion of tests as per Note-1 as above, the Firm has to submit the following documents to OFT.
 - I. The Raw material certificate from the original manufacturer, Heat number, and quantity purchased and number of bars is to be mentioned in the inspection letter to OFT.
 - II. The Chemical and Mechanical test certificates from NABL accredited approved lab as per Table 'A'.
 - III. Raw material sample minimum of 300mm should be supplied for cross verification along with the first supply of stores.
 - IV. Dimensional reports including visual as per Table 'A'.
 - V. Guarantee / Warrantee certificate of supplier against the supply.
- All the above Documents mentioned at Note No.2 above are to be forwarded to GM/OFT along with supply.
- 4. OFT shall verify all the documents as above and accord clearance to the firm for dispatch of the material to OFT if all documents are in order.
- 5. OFT/Trichy shall verify all the parameters as per Table 'A' and after satisfactory results, the material will be accepted /cleared accordingly.
- 6. Material has to be replaced 100% by the firm in case of non-conformity to specification as per Table-A, during inspection at OFT, Trichy.

VERIFICATION OF INSPECTION DOCUMENTS

SL_NO INSPECTION DOCUMENTS			
1	The Raw material original Manufacturer's certificate, Details of Heat Number,		
	Quantity purchased and number of Bars etc.,		
2	The Chemical and Mechanical test certificates from NABL accredited approved Lab.		
3	Dimension report including visual.		
4	Packing slip details.		

U.MANGALASAM HOS/STD.CELL

DS/STD.CEL CHECKED L.S. ASHA

HOS / QCM CHECKED V.RAVEENDAR JWM/STD.CELL

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